Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

ESPRIMO™ E Series Economy in Small Form Factor

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Economy

Sophisticated technologies for best in class economy.

Reduce cost of your professional PC by lowest energy consumption! The switched monitor outlet powers the display through the system. Switching off the systems means disconnecting the display, this saves up to ~ 20 % of the display power consumption annually. Additionally, software and BIOS power management solutions reduce the overall average power consumption.

Further Total Cost of Ownership reductions are achieved through a comprehensive set of manageability features, sophisticated security solutions and a service friendly cabinet design.

For highest economy, ESPRIMO professional PCs are designed to increase your productivity and to decrease your cost.

Reliability

- Complete system development and manufacturing by Fujitsu Siemens Computers guarantees highest quality
- Platform stability and product continuity with managed lifecycle up to 18 month and chipset diversity

Environment

- Build with specially selected materials, the ESPRIMO Green PC brings economy and ecology in harmony
- From development to production, from transport to recycling –minimize the impact on the environment and limit the use of unrecoverable resources.

Ergonomics

- Sophisticated hardware design with optimized fans and air flow provides most silent system for an efficient working environment
- Best usability and complete quality – service friendly cabinet and easy access to all components

Customizing

- Tailor-made products to meet customer individual requirements
- Freedom of choice with systems which perfectly fit to specific customer

Manageability

- Reduce Total Cost of Ownership with a comprehensive set of system management features
- Easy and remote administration with DeskView client management

Security

- Access and data protection with sophisticated hardware and software components for secure systems
- Protect property – secure hardware and data and limit access with SmartCard Reader

	E5905	E5901	E5700	E5915	E5916	E5615	E5616	E5710
Mainboard					intel vPro			
Chipset	i945G Express	i945G iAMT	i915GV	iQ965	iQ965 iAMT	NVIDIA C51PV	NVIDIA C51PV	ATI Radeon® Xpress 1100
Mainboard Number	D2164	D2168	D2334	D2344	D2348	D2464-A	D2464-B TPM	D2454
Mainboard form factor	proprietary	proprietary	proprietary	proprietary	proprietary	proprietary	proprietary	proprietary
Processor socket	LGA 775	LGA 775	LGA 775	LGA 775	LGA 775	Socket AM2	Socket AM2	LGA 775
Front side bus resp. system bus support	533/800/1066 MHz	533/800/1066 MHz	533/800 MHz	533/800/1066 MHz	533/800/1066 MHz	2000 MHz	2000 MHz	533/800/1066 MHz
BIOS version	Phoenix Vers.5.0	Phoenix Vers.5.0	Phoenix Vers.5.0	Phoenix Vers. 6.0	Phoenix Vers. 6.0	Phoenix Vers. 6.0	Phoenix Vers. 6.0	Phoenix Vers. 6.0
Flash EPROM BIOS update by software	x	x	x	x	x	x	x	x
Recovery BIOS	x	x	x	x	x	x	x	x
Processor								
Intel® Core™ 2 Duo	-	-	-	up to E6600	up to E6600	-	-	up to E6600
Second level cache	-	-	-	4MB	4MB	-	-	4MB
Front side bus (FSB)	-	-	-	1066MHz	1066MHz	-	-	1066MHz
Intel® Pentium® D9xx	up to D945	up to D945	-	up to D945	up to D945	-	-	up to D945
Second level cache	2x2MB	2x2MB	-	2x2MB	2x2MB	-	-	2x2MB
Front side bus (FSB)	800MHz	800MHz	-	800MHz	800MHz	-	-	800MHz
Intel® Pentium® D8xx	up to D820	up to D820	-	up to D820	up to D820	-	-	up to D820
Second level cache	2x1MB	2x1MB	-	2x1MB	2x1MB	-	-	2x1MB
Front side bus (FSB)	800 MHz	800 MHz	-	-	-	-	-	-
Intel® P4 6xx	up to 661	up to 661	up to 661	-	-	-	-	-
Second level cache	2MB	2MB	2MB	-	-	-	-	-
Front side bus (FSB)	800 MHz	800 MHz	800 MHz	-	-	-	-	-
Intel® P4 5xx	521	521	541	-	-	-	-	541
Second level cache	1MB	1MB	1MB	-	-	-	-	1MB
Front side bus (FSB)	800 MHz	800 MHz	800 MHz	800MHz	800MHz	-	-	800MHz
Intel® Celeron D	up to D356	up to D356	up to D356	up to D356	up to D356	-	-	up to D356
Second level cache	509 KB	510 KB	511 KB	512 KB	512 KB	-	-	512 KB
Front side bus (FSB)	533 MHz	533 MHz	533 MHz	533 MHz	533 MHz	-	-	533 MHz
Athlon™ 64 X2 (socket)	-	-	-	-	-	up to 5000+ (AM2)	up to 5000+ (AM2)	-
Second level cache	-	-	-	-	-	2 x 512 KB	2 x 512 KB	-
System Bus support	-	-	-	-	-	2000 MHz	2000 MHz	-
Athlon™ 64 X2 Energy efficient (socket)	-	-	-	-	-	3800+ (AM2)	3800+ (AM2)	-
Second level cache	-	-	-	-	-	2 x 512 KB	2 x 512 KB	-
System Bus support	-	-	-	-	-	2000 MHz	2000 MHz	-
AMD Athlon™ 64 (socket)	-	-	-	-	-	3800+ (AM2)	3800+ (AM2)	-
Second level cache	-	-	-	-	-	512 KB	512 KB	-
System Bus support	-	-	-	-	-	2000 MHz	2000 MHz	-
AMD Sempron™ (socket)	-	-	-	-	-	3200+ (AM2)	3200+ (AM2)	-
Second level cache	-	-	-	-	-	128 KB	128 KB	-
System Bus support	-	-	-	-	-	1600MHz	1600MHz	-
AMD Sempron™ Energy efficient (socket)	-	-	-	-	-	3200+ (AM2)	3200+ (AM2)	-
Second level cache	-	-	-	-	-	128 KB	128 KB	-
System Bus support	-	-	-	-	-	1600 MHz	1600 MHz	-
Memory								
Memory support	533/667 MHz	533/667 MHz	533 MHz	533/667/800 MHz	533/667/800 MHz	533/667/800 MHz	533/667/800 MHz	533/667 MHz
DIMM slots	4	4	4	4	4	4	4	2
dual channel support	x	x	x	x	x	x	x	-
Max. capacity DDR SDRAM 400 MHz	-	-	-	-	-	-	-	-
Max. capacity DDR2 SDRAM 533 MHz	4GB	4GB	4GB	-	-	-	-	-
Max. capacity DDR2 SDRAM 667 MHz	-	-	-	4GB	4GB	4GB	4GB	4GB
for dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same	4GB address space thereof, max. 3.0GB usable for physical main memory	4GB address space thereof, max. 3.0GB usable for physical main memory	4GB address space thereof, max. 3.0GB usable for physical main memory	8GB address space (with future memory modules). Fully useable.	8GB address space (with future memory modules). Fully useable.	8GB address space (with future memory modules). Fully useable.	8GB address space (with future memory modules). Fully useable.	4GB address space (with future memory modules). Thereof, max. 3.0GB usable for physical main memory.
Interfaces								
Mouse/keyboard (PS2)	x/x	x/x	x/x	-/-	-/-	-/-	-/-	-/-
Serial (9pi, 16 byte FIFO, 16550 compatible)	x	x	x	x	x	x	x	x
Second serial port	optional	optional	optional	x	x	x	x	x
Parallel (25pin with EPP and ECP)	x	x	x	-	-	-	-	-
Display (15 pin, VGA)	x	x	x	x	x	x	x	x
DVI adapter	-	-	optional	-	-	-	-	-
DVI adapter incl. Dual Monitoring (DVI/VGA)	optional	optional	-	optional	optional	optional	optional	optional
Dual-DVI adapter incl. Dual Monitoring (DVI/DVI)	optional	optional	-	optional	optional	-	-	optional from Dec 06 on

Micro (mono) rear	-	-	-	-	-	-	-	-
Line in (stereo) rear	x	x	x	x	x	x	x	x
Line out (stereo) rear	x	x	x	x	x	x	x	x
Micro (mono) front	x	x	x	x	x	x	x	x
Headphone in front	x	x	x	x	x	x	x	x
LAN RJ45	x	x	x	x	x	x	x	x
Universal Serial Bus (USB 2.0) in total	8	8	8	10	10	8	8	10
therefore								
USB rear	4	4	4	6	6	4	4	6
USB front	2	2	2	2	2	2	2	2
USB internal	2	2	2	2	2	2	2	2
Interfaces add on cards								
Dual port RS232 , serial	optional	optional	optional	optional	optional	optional	optional	optional
LAN on board								
10/100/1000 MBit/s	Broadcom BCM5751T	Intel® 82573E	Realtek RTL8110	Broadcom BCM5755	Intel® 82573E	NVIDIA C51PV	NVIDIA C51PV	Realtek RTL8110
Wake up on LAN (WOL)	x	x	x	x	x	x	x	x
PXE	x	x	x	x	x	x	x	x
BootP	optional	optional	optional	tested	tested	tested	tested	tested
LAN add on cards								
Gigabit Ethernet, SysKonnect	optional	optional	optional	optional	optional	optional	optional	optional
Audio on board								
Internal speaker supports audio playback	x	x	x	x	x	x	x	x
AC97	-	-	-	-	-	-	-	-
High definition audio	Realtek ALC260	Realtek ALC260	Realtek ALC260	Realtek ALC 260	Realtek ALC 260	Realtek ALC 260	Realtek ALC 260	Realtek ALC 260
I/O controller onboard								
Fast IDE/Ultra DMA-100 bus master capability	for 2 drives	for 2 drives	for 2 drives	-	-	-	-	-
Serial ATA	2	2	2	4	4	4	4	4
Serial ATA II / 3GBit	x/x	x/x	-	x/x	x/x	x/x	x/x	x/x
Raid 1/0	-	-	-	-	Nov 06	x	x	-
Drive bays	3	3	3	3	3	3	3	3
internal 3,5"	1	1	1	1	1	1	1	1
external 3,5"	1*	1*	1*	1*	1*	1*	1*	1*
external 5,25"	1*	1*	1*	1*	1*	1*	1*	1*
	* optional internal 3.5"	* optional internal 3.5"	* optional internal 3.5"	* optional internal 3.5"	* optional internal 3.5"	* optional internal 3.5"	* optional internal 3.5"	* optional internal 3.5"
Floppy disk drive 1.44 MB standard	optional	optional	optional	optional	optional	optional	optional	optional
Hard disk drives								
Serial ATA II 40 /80 / 160 / 250 GB supporting NCQ and 3GBit (if chipset support is available)	x/x/x/x	x/x/x/x	x/x/x/x	x/x/x/x	x/x/x/x	x/x/x/x	x/x/x/x	x/x/x/x
Optical drives (IDE)								
48-speed ATAPI CD ROM	optional	optional	optional	-	-	-	-	-
16/48-speed ATAPI DVD ROM	optional	optional	optional	-	-	-	-	-
48/24/48/16-speed ATAPI CD-RW / DVD ROM	optional	optional	optional	-	-	-	-	-
DVD SuperMulti writer double layer support	optional	optional	optional	-	-	-	-	-
24/10/24/8-speed ATAPI CD RW / DVD ROM slim	-	-	-	-	-	-	-	-
DVD+/-RW writer slim	-	-	-	-	-	-	-	-
Multibay 24/10/24/8 CD RW / DVD ROM slim	-	-	-	-	-	-	-	-
Multibay DVD writer	-	-	-	-	-	-	-	-
Optical drives (SATA)								
16/48-speed DVD ROM	-	-	-	optional	optional	optional	optional	optional
48/24/48/16-speed CD-RW / DVD ROM	-	-	-	optional	optional	optional	optional	optional
DVD SuperMulti writer double layer support	-	-	-	optional	optional	optional	optional	optional
Slots								
PCI	2 (190 mm) low profile	2 (190 mm) low profile	2 (190 mm) low profile	2 (190 mm) low profile	2 (190 mm) low profile	2 (190 mm) low profile	2 (190 mm) low profile	2 (190 mm) low profile
PCI Express x16	1 (210 mm) low profile	1 (210 mm) low profile	only ADD2(DVI) support	1 (210 mm) low profile	1 (210 mm) low profile	1 (210 mm) low profile	1 (210 mm) low profile	1 (210 mm) low profile
PCI Express x1	1 (210 mm) low profile	1 (210 mm) low profile	1 (210 mm) low profile	1 (210 mm) low profile	1 (210 mm) low profile	1 (210 mm) low profile	1 (210 mm) low profile	1 (210 mm) low profile
	1 PCI Express x16 low profile (190mm) and 2 PCI full height (174/210 mm) optional	1 PCI Express x16 low profile (190mm) and 2 PCI full height (174/210 mm) optional	1x low profile (DVI support) and 2 PCI full height (174/210 mm) optional	1 PCI Express x16 low profile (190mm) and 2 PCI full height (174/210 mm) optional	1 PCI Express x16 low profile (190mm) and 2 PCI full height (174/210 mm) optional	1 PCI Express x16 low profile (190mm) and 2 PCI full height (174/210 mm) optional	1 PCI Express x16 low profile (190mm) and 2 PCI full height (174/210 mm) optional	1 PCI Express x16 low profile (190mm) and 2 PCI full height (174/210 mm) optional

Graphic on board	Intel® GMA950	Intel® GMA950	Intel® GMA900	Intel® GMA 3000	Intel® GMA 3000	NVIDIA C51PV	NVIDIA C51PV	ATI RC415
Shared memory depending on driver	up to 224MB	up to 224MB	up to 128MB	up to 256MB	up to 256MB	up to 256MB	up to 256MB	up to 256MB
Resolution (color depth up to 32 Bit/pixel)								
1024 x 768 (recommended / max*)	85 / 120 Hz	85 / 120 Hz	85 / 120 Hz	85 / 120 Hz	85 / 120 Hz	120 / 200 Hz	120 / 200 Hz	85 / 120 Hz
1280 x 1024 (recommended / max*)	85 / 120 Hz	85 / 120 Hz	85 / 120 Hz	85 / 120 Hz	85 / 120 Hz	100 / 150 Hz	100 / 150 Hz	85 / 120 Hz
1600 x 1200 (recommended / max*)	85 Hz	85 Hz	85	85 / 100 Hz	85 / 100 Hz	85 / 100 Hz	85 / 100 Hz	85 / 100 Hz
1440 x 900 widescreen TFT (VGA / DVI)	- / x	- / x	- / x	x / x	x / x	x / x	x / x	x / x
1680 x 1050 widescreen TFT (VGA / DVI)	x / x	x / x	x / x	x / x	x / x	x / x	x / x	x / x
1920 x 1200 widescreen TFT (VGA / DVI)	x / x	x / x	x / x	x / x	x / x	x / x	x / x	x / x
* refresh rates reflect the max. graphics capabilities. Video quality can be deteriorated when using maximum settings. For TFT we recommend to use 60Hz.								
Graphic add on cards								
NVIDIA GeForce FX 6200TC 128MB, dual DVI/VGA	-	-	-	-	-	-	-	-
NVIDIAGeForce FX 7300LE 128MB, LP	optional	optional	-	optional	optional	optional	optional	optional
NVIDIAGeForce FX 7300LE 256MB, LP	optional	optional	-	optional	optional	optional	optional	optional
NVIDIAGeForce FX 7300LE 128MB	-	-	-	-	-	-	-	-
NVIDIAGeForce FX 7300LE 256MB	-	-	-	-	-	-	-	-
DVI extension adapter	optional	optional	optional	optional	optional	optional	optional	optional
Electrical values								
Rated voltage range, AC	100 - 240 V	100 - 240 V	100 - 240 V	100 - 240 V	100 - 240 V	100 - 240 V	100 - 240 V	100 - 240 V
Rated frequency range	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Operating voltage range, AC	90 - 264 V	90 - 264 V	90 - 264 V	90 - 264 V	90 - 264 V	90 - 264 V	90 - 264 V	90 - 264 V
Operating line frequency range	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz
Max. output of power supply	270 W	270 W	270 W	270 W	270 W	270 W	270 W	270 W
Monitor outlet	yes, switched	yes, switched	yes, switched	yes, switched	yes, switched	yes, switched	yes, switched	yes, switched
Power consumption for standard configuration (W) / CPU	P4 3,4GHz	P4 3,4GHz	P4 3,4GHz	P4 541 / E6400	P4 541 / E6400	Athlon 64 X2 3800+ 35W / 4200+	Athlon 64 X2 3800+ 35W / 4200+	P4 541 / E6400
Peak (running app. CD in use)	183W	183W	174W	145W / 94W	TBD	93W / 120W	93W / 120W	TBD
Average (running OS, Idle mode)	80W	78W	67W	64W / 61W	TBD	51W / 57W	51W / 57W	TBD
Minimum (ACPI status S5, soft off, WOL enabled)	1,2W	1,5W	1,5W	1,7W	TBD (TBD iAMT enabled)	1,0W / 1,1W	1,0W / 1,1W	TBD
Minimum (ACPI status S5, soft off, wake up power button only)	-	-	-	-	TBD	1,0W / 1,1W	1,0W / 1,1W	TBD
Minimum **"low power soft off"** (FSC patent pending) (ACPI S5, soft off, wake up power button only)	-	-	-	0,5W	-	-	-	-
Heat dissipation (kJ/h / BTU/h) / CPU	P4 3,4GHz	P4 3,4GHz	P4 3,4GHz	E6400	P4 541 / E6400	Athlon 64 X2 4200+	Athlon 64 X2 4200+	
Peak (running app. CD in use)	659 kJ/h / 625 BTU/h	659 kJ/h / 625 BTU/h	627 kJ/h / 594 BTU/h	339 kJ/h / 321 BTU/h	TBD	432 kJ/h / 410 BTU/h	432 kJ/h / 410 BTU/h	TBD
Average (running OS, Idle mode)	288 kJ/h / 273 BTU/h	281 kJ/h / 267 BTU/h	242 kJ/h / 229 BTU/h	220 kJ/h / 208 BTU/h	TBD	206 kJ/h / 195 BTU/h	206 kJ/h / 195 BTU/h	TBD
Minimum (ACPI status S5, soft off, WOL enabled)	4,3 kJ/h / 4,1 BTU/h	5,4 kJ/h / 5,2 BTU/h	5,4 kJ/h / 5,2 BTU/h	6,2 kJ/h / 5,8 BTU/h	TBD	4,0 kJ/h / 3,8 BTU/h	4,0 kJ/h / 3,8 BTU/h	TBD
1W = 3,6kJ/h, 1W = 3,4121BTU/h								
Noise for standard configuration				P4 541 / E6400	P4 541 / E6400			
A weighted sound power level Lwad / Workplace related A-weighted sound pressure level LpAm (bystander position) (ISO9296)								

LWAd in B / LpAm in dB (Idle mode)	3,4B / 19dB	3,4B / 19dB	3,4B /19dB	3,5B / 20dB	3,5B / 20dB	3,7B / 22dB	3,7B / 22dB	TBD
LWAd in B / LpAm in dB (office work)	3,9B / 24dB	3,9B / 24dB	4,1B /26dB	3,6B / 21dB	3,6B / 21dB	3,7B / 23dB	3,7B / 23dB	TBD
LWAd in B / LpAm in dB (Operating, HDD performance)	4,0B / 26dB	4,0B / 26dB	4,1B /27dB	3,7B / 22dB / 3,6B / 21dB	3,7B / 22dB / 3,6B / 21dB	3,7B / 23dB	3,7B / 23dB	TBD
Ambient temperature (IEC 721)	15°C'- 35°C	15°C'- 35°C	15°C'- 35°C	15°C'- 35°C	15°C'- 35°C	15°C'- 35°C	15°C'- 35°C	15°C'- 35°C
Dimensions (H x W x D)	100 x 340 x 380 mm	100 x 340 x 380 mm	100 x 340 x 380 mm	100 x 340 x 380 mm	100 x 340 x 380 mm	100 x 340 x 380 mm	100 x 340 x 380 mm	100 x 340 x 380 mm
Operating position (vertical/horizontal)	x / x (no feet needed)	x / x (no feet needed)	x / x (no feet needed)	x / x (no feet needed)	x / x (no feet needed)	x / x (no feet needed)	x / x (no feet needed)	x / x (no feet needed)
Weight (depending on config)	approx. 10 kg	approx. 10 kg	approx. 10 kg	approx. 10 kg	approx. 10 kg	approx. 10 kg	approx. 10 kg	approx. 10 kg
Approvals and standards								
CE certification according to EU Directives 89/336/EEC (EMC) and 73/23/EEC (Product safety)	x	x	x	x	x	x	x	x
Ergonomics ISO9241 (GS mark)	x	x	x	x	x	x	x	x
Product safety IEC60950, EN60950, UL 60950, CSA22.2, UL 60950, CSA22.2, No.60950	x	x	x	x	x	x	x	x
Electromagn. compatibility EN55022/B, FCC class B, EN55024, EN61000-3-2/3	x	x	x	x	x	x	x	x
Environmental compatibility								
RoHS (Restriction of hazardous substances)	x	x	x	x	x	x	x	x
WEEE (Waste electrical and electronical equipment)	x	x	x	x	x	x	x	x
Energy Star	x	x	x	TBD	TBD	x	x	TBD
Blue Angel	x	x	x	TBD	TBD (iAMT disabled)	TBD	TBD	TBD
Nordic Swan	x	x	x	TBD	TBD	TBD	TBD	TBD
Software (compatibility / preinstalled)								
Microsoft Windows 2000	x / -	x / -	x / -	x / -	x / -	x / -	x / -	x / -
Microsoft Windows XP Home	x / optional	x / optional	x / optional	x / optional	x / optional	x / optional	x / optional	x / optional
Microsoft Windows XP Professional	x / optional	x / optional	x / optional	x / optional	x / optional	x / optional	x / optional	x / optional
Microsoft Windows XP Professional x64 Edition	x / optional	x / optional	- / -	x / optional	x / optional	x / optional	x / optional	x / optional
Microsoft Windows Vista™ capable (min. 512MB RAM necessary)	x	x	x	x	x	x	x	x
Microsoft Windows Vista™ Premium Ready (min. 1GB RAM / DVD reader necessary)	x	x	-	x	x	x	x	x
Linux certified	x	-	-	planned	-	Novell SLED	-	planned
Additional Software								
Drivers and Utility DVD (DUDVD)	x	x	x	x	x	x	x	x
XONTROL (noise reduction for optical drives)	x	x	x	x	x	x	x	x
SafeStandby	x	x	x	x	x	x	x	x
Altiris Local Recovery Pro	-	-	-	x	x	x	x	x
Recover Pro disaster recovery solution	optional	optional	optional	-	-	-	-	-
Others								
Thermal Management	x	x	x	x	x	x	x	x
Keyboard on (Fujitsu Siemens Computers keyboard required)	x	x	x	x	x	x	x	x
Spare part availability	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years
Compatibility (references)								
Microsoft Operating Systems (HCT / HCL entry)	x	x	x	x	x	x	x	x
PC 2001, DMI 2.0, WMI 1.5, USB 2.0, Hyper-Threading	x	x	x	x	x	x	x	x
Manageability								

DeskView 10.x client management including:								
On/Offline remote client management	x	x	x	x	x	x	x	x
Detailed system inventory management and reports	x	x	x	x	x	x	x	x
BIOS Management	x	x	x	x	x	x	x	x
Remote power management	x	x	x	x	x	x	x	x
System notifications	x	x	x	x	x	x	x	x
Advanced alerts (ASF implementation)	x	-	-	-	-	-	-	-
Security Remote Control	x	x	x	x	x	x	x	x
DeskView Helpdesk Integration	x	x	x	x	x	x	x	x
DeskUpdate Driver management	x	x	x	x	x	x	x	x
DeskView Migrate	optional	optional	optional	optional	optional	optional	optional	optional
DeskView Control	optional	optional	optional	optional	optional	optional	optional	optional
PXE 2.1 Boot code	x	x	x	x	x	x	x	x
BootP Boot Code including Bootmanage Administrator Software	optional	optional	optional	tested	tested	tested	tested	tested
Wake up from S5 (off mode)	x	x	x	x	x	x	x	x
Intrusion switch	optional	optional	optional	optional	optional	optional	optional	optional
Security								
Physical Security implemented in the cabinet								
Prepared for Kensington lock, eye for padlock, seal option	x	x	x	x	x	x	x	x
Integrated cabinet lock	optional	optional	optional	optional	optional	optional	optional	optional
System Security								
Boot sector virus protection	x	x	x	x	x	x	x	x
Write protect option for the Flash EPROM	x	x	x	x	x	x	x	x
Embedded security (TPM1.1)	optional	x	-	-	-	-	-	-
Embedded security (TPM1.2)	-	-	-	x	x	-	x	-
Norton Internet Security (NIC)	x	x	x	x	x	x	x	x
Control of all USB interfaces / external USB interfaces detachable separately	x / x	x / x	x / -	- / -	- / -	- / -	- / -	- / -
Boot protection for floppy disk/CD drive and write protection for floppy disk drive	x	x	x	x	x	x	x	x
Control of external interfaces	x	x	x	x	x	x	x	x
User Security								
User and supervisor BIOS password	x	x	x	x	x	x	x	x
SystemLock BIOS SmartCard Security	x	x	-	-	-	-	-	-
SystemLock 2 BIOS SmartCard Security	-	-	-	x	x	x	x	x
Hard disk password	x	x	x	x	x	x	x	x
Access protection via external SmartCard reader	optional	optional	optional	optional	optional	optional	optional	optional
Access protection via internal SmartCard reader	optional	optional	optional	optional	optional	optional	optional	optional
Fujitsu Siemens Computers MEMORYBIRD BIOS lock	x	x	-	-	-	x	x	x
Serviceability								
FlexySlot	x	x	x	x	x	x	x	x
EasyFix	x	x	x	x	x	x	x	x
EasyChange (for HDD / for optical drives)	x / x	x / x	x / x	x / x	x / x	x / x	x / x	x / x
EasyPull	x	x	x	x	x	x	x	x

**) Not all Windows Vista™ features are available for use on all Windows Vista Capable PCs. All Windows Vista Capable PCs will run the core experiences of Windows Vista, such as innovations in organizing and finding information, security, and reliability. Some features available in premium editions of Windows Vista -- like the new Windows® Aero™ user interface -- require advanced or additional hardware. Check www.windowsvista.com/getready for details.*

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